

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In Re Continuation Application based on co-pending Application of:

Applicant : C. Harry Knowles  
Serial No. : 09/255,627  
Filing Date: February 22, 1999

Honorable Commissioner of Patents  
and Trademarks  
P.O. Box 2327  
Arlington, Virginia 22202

**PRELIMINARY AMENDMENT**

Sir:

Preliminary to the examination of the above referenced Continuation Application, kindly amend the same as follows:

**AMENDMENT OF THE TITLE:**

Please amend the Title of Invention to read as follows:

--TRANSPORTABLE SCANNING INTEGRATED WWW ACCESS TERMINAL--

**AMENDMENT OF THE SPECIFICATION:**

Please amend the Specification as follows:

**On Page 1**, amend paragraphs 1-3 as follows:

This Application is a Continuation of copending Application Serial No. 09/255,627, filed February 22, 1999; which is a Continuation of copending Application Serial No. 08/891,599, filed July 11, 1997, now U.S. Patent No. 5,905,251; which is a Continuation of Application Serial No. 08/753,367, filed November 25, 1996; which is a Continuation-in-Part of: copending Application Serial No. 08/645,331 filed September 24, 1996; copending Application Serial No. 08/615,054 filed March 12, 1996; copending Application Serial No. 08/573,949 filed December 18, 1995; copending Application Serial No. 08/292,237 filed May 17, 1994; copending

Application Serial No. 08/365,193 filed December 28, 1994; copending Application Serial No. 08/293,493 filed August 19, 1994; copending application Serial No. 08/561,479 filed November 20, 1995; copending Application Serial No. 08/278,109 filed November 24, 1995; copending Application Serial No. 08/489,305 filed June 9, 1995; copending Serial No. 08/476,069 filed June 7, 1995; and copending Application Serial No. 08/584,135 filed January 11, 1996. Each said patent application is assigned to and commonly owned by Metrologic Instruments, Inc. of Blackwood, New Jersey, and is incorporated herein by reference in its entirety.

#### Field Of Invention

The present invention is directed to a novel [internet] Internet scanning terminal and a novel method for surfing Internet World Wide Web (WWW) using bar code symbols encoded with the Uniform Resource Locators (URLs) indicating the location of Web-Sites within the WWW to be explored.

#### Background Of The Invention

Presently, several techniques have been developed for connecting to (i.e., "surfing" among) Internet Web-sites using a conventional graphical user interface (GUI) based Internet browser programs, such as the Navigator® from Netscape Communications, Inc. or the Internet Explorer® from Microsoft, Inc. [Which] Notably the availability of any particular Web-site surfing technique depends, of course, on where the Internet user finds him or her self in the Internet browser program at any particular instant of time.

**On Page 2, amend paragraphs 2 and 4 as follows:**

For example, if one is currently at a Web-site (i.e., in a particular HyperText Markup Language (HTML) document), at which there is a highlighted "link" or embedded URL specifying the Internet address of another Web-site (i.e., another HTML document), then the user can "surf to" this other Web-site by simply "clicking on" or selecting the highlighted URL with his or her pointing device (i.e., "mouse") in a conventional manner. The ability to connect to other Web-sites by simply pointing and clicking on a highlighted URLs embedded in an HTML document has contributed enormously to the growth and popularity of the Internet in the last few years.

More recently, with the growth and ever increasing complexity of the WWW, it is becoming popular to use printed publications (e.g. magazines, catalogues, directories, etc.) which list Web-site, corresponding URLs and content descriptions, as navigational aids, much in same way that the TV GUIDE® magazine is used to help viewers select programs during television viewing. Again, however, each time a listed Web-site is to be viewed, the user is forced to manually enter into the Internet browser program, the lengthy character string associated with the URL of the Web-site being selected. Only thereafter, does the browser program automatically connect the user's client system (i.e., Internet Terminal) to the Internet [Server] information serving computer supporting the selected Web-site.

**On Page 3**, amend paragraph 3 as follows:

A further object of the present invention is to provide such an Internet Scanning System, wherein the bar code symbol reader may be a laser scanning bar code symbol reader, a CCD bar code symbol, or a Wand-type bar code symbol reader.

**On Page 7**, amend paragraph 2 as follows:

In the illustrative embodiments, each Internet Web-site Server 2 is realized as a computer system running conventional Web-site server software (e.g., WebStar® from StarNine, Inc.) and is interfaced with an ISP in a conventional manner. Each Internet Web-site Server is assigned a unique [TCP/IP] IP address (and Domain Name) on the Internet, and is provided with Internet networking software to support the TCP/IP protocol. In addition, each Internet Web-site server is provided with one or more application software programs for creating and maintaining hypermedia documents containing text, graphics and audio information within an information file structure expressed in HTML. Each HTML document on the WWW is physically stored in an Internet Server 2. The location of such information storage on the WWW is specified by a Uniform Resource Locator (URL), the syntax of which is well known in the art. The function of a URL is best illustrated by way of example. Metrologic Instruments, Inc., the assignee of the present invention, has launched a WWW site having a "home page" (i.e., first page) specified by

the following URL: "http://www.metrologic.com". The type of information maintained at this Web-site, beginning with Metrologic's home page, can be virtually any type of information (of a multi-media nature) and typically will be updated over time to reflect changes in either the company, its products, services and the like. The same is generally true for each and every other Web-site on the Internet, regardless of the type of information being served to client systems.

**On Page 11**, amend paragraph 2 as follows:

The Mediamester 9500<sup>TM</sup> Internet Terminal from Nokia, Inc., the NetStation<sup>TM</sup> Internet Terminal from Acorn Computer, or the Internet Digital Appliance from Diba, are each [provide] provided with a wireless remote control device which includes a programmable microcontroller (i.e., microprocessor) operably connected to a system bus of one sort or another. The system subcomponents that are connected to [this] the system bus structure include, for example: program memory realized in the form of EPROM 21; data storage memory realized in the form of RAM 22; a keypad 23, data storage registers and interface circuitry; an IR-based communication circuit and interface circuitry 24; and a power supply and power distribution circuitry 25. In such commercial products, no visual display device (e.g. LCD panel) is provided, as all display functions are provided on the television screen using an on-screen display format well known in the art. Integration of an automatic ScanQuest® Laser Scanning Module (Model No. IS4120) into the system architecture of such wireless remote control devices can be achieved by adding additional data registers to the system bus, and connecting the data output port of the scanner to such registers in a conventional manner. Additional control logic will have to be provided by the microcontroller in to provide scan data from the scanner priority over data entered manually into the system. All such modifications are within the ordinary skill in the art.

**On Page 12**, amend paragraph 3 as follows:

As shown in Fig. 3, the third illustrative embodiment of the Internet Scanning System hereof is realized in the form of a hand-held Scanning Integrated Terminal. The Scanner Integrated Terminal 26 is shown connected to an ISP 4 by way of a radio-base station 27 and

wireless link 5. The hand-held Scanning Integrated Terminal 26 has an integrated GUI-based [web] World Wide Web (WWW) browser program, display panel 28, touch-screen type keypad 29, and programmed bar code symbol scanner 20. The function of the bar code symbol scanner 20 is to read a bar code symbol 8 that is encoded with the URL of a Web-site to be accessed by the Internet Scanning System, and produce symbol character data representative thereof.

**On Page 13, amend paragraph 1 as follows:**

In the illustrative embodiment, the Scanner Integrated Terminal 26 is realized as a transportable computer, such as the Newton® Model 130 [Messagepad] MessagePad 30 from Apple Computer, Inc. of Cupertino, California. This device is provided with NetHopper™ brand Internet Access Software from AllPen Software, Inc., of Los Gatos, California, which supports the TCP/IP networking protocol within the Newton MessagePad. The Newton [Messagepad] MessagePad is also equipped with a Motorola PCMICA-based modem card 31 having a RF transceiver for establishing a wireless digital communication link with either (i) a cellular base station, or (ii) one or more satellite-base stations (27) connected to the Internet by way of an ISP 4 in a manner well known in the global information networking art. While it is understood that, in some instances, it may be desired to connect a pen or wand device to the serial port of the Newton MessagePad to provide bar code symbol reading capabilities thereto, it is generally preferred that automatic laser scanning engine 20 (e.g., Metrologic ScanQuest® Laser Scanning Module Model No. IS4120), be interfaced with the serial communications port of the Newton MessagePad so as to realize the Internet Scanning System of the third illustrative embodiment hereof.

REQUIREMENT UNDER 37 C.F.R.1.121

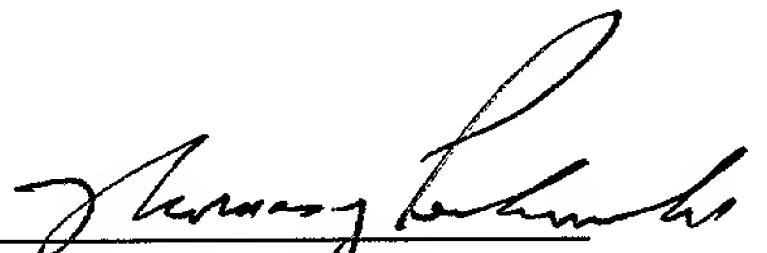
As required under 37 C.F.R. 1.121, and pursuant to the present Amendment, a Substitute Specification is filed herewith.

REMARKS

The present Continuation Application is filed to continue prosecution of the inventive subject matter disclosed in Application Serial No. 09/255,627 filed February 22, 1999.

The enclosed Amendments are provided for the correction of errors of a clerical nature. Applicant also files herewith a Substitute Specification as required under 37 C.F.R. 1.121.

Respectfully submitted,



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Dated: November 26, 2001

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Nancy M. Short

Mailer: Nancy M. Short  
Dated: November 26, 2001

Attorney Docket No.: 108-013USANF0

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re new Continuation Application based on:

Applicant : C. Harry Knowles  
Application Serial No. : 09/255,627  
Filing Date: February 22, 1999

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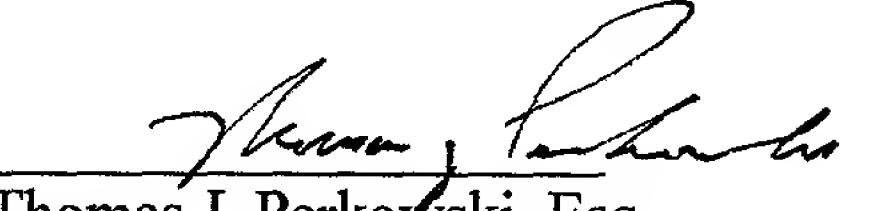
**SUBMISSION OF FORMAL DRAWINGS**

Sir:

Transmitted herewith please find four (4) Sheets of Formal Drawings to be filed in the above referenced new Continuation Application.

Respectfully submitted,

Dated: November 26, 2001

  
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